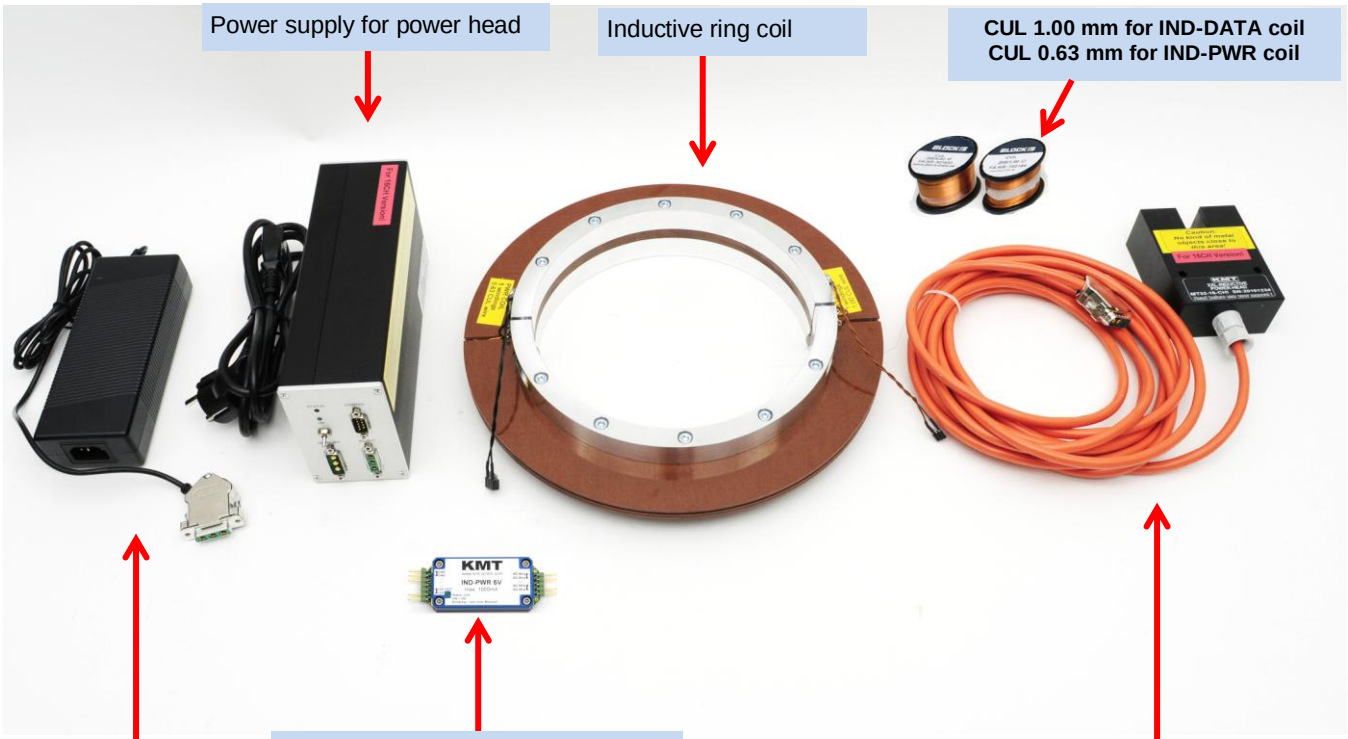
# IND-PWR XXL

## RING COIL

# User Manual

## Inductive power supply set

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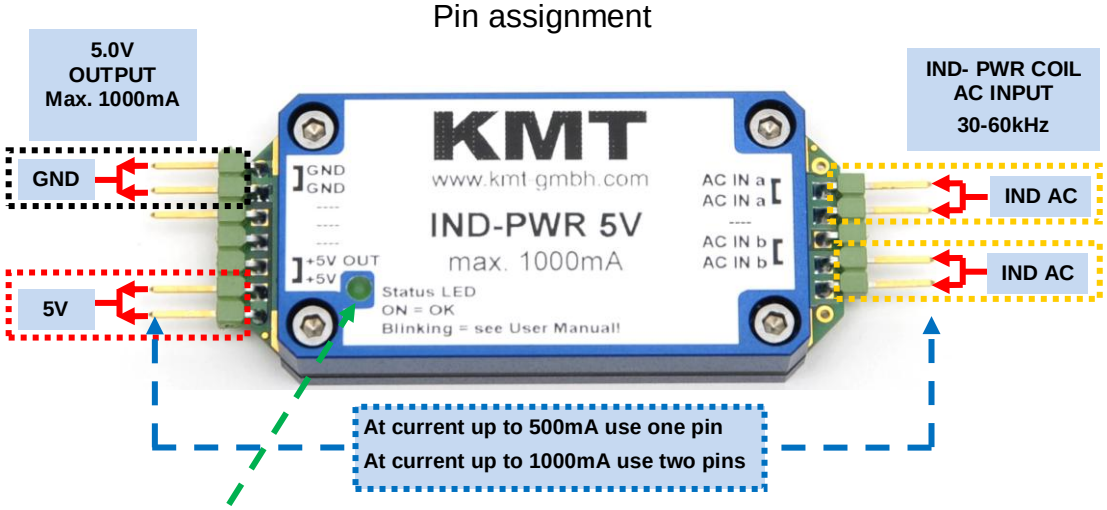
Bankverbindung: Sparkasse KölnBonn, Kto.-Nr: 1900310663, BLZ: 370 501 98

# MT32-IND-PWR 5V - AC/DC Module for inductive power

**MT32-IND-PWR 5V**
AC/DC Module for inductive power
Input: 30-60kHz, 10-50V AC
Output: 5 VDC
Current: up to 1000mA
Weight: 35 gram
Vibration: 5g
Shock: 3000g

## Pin assignment



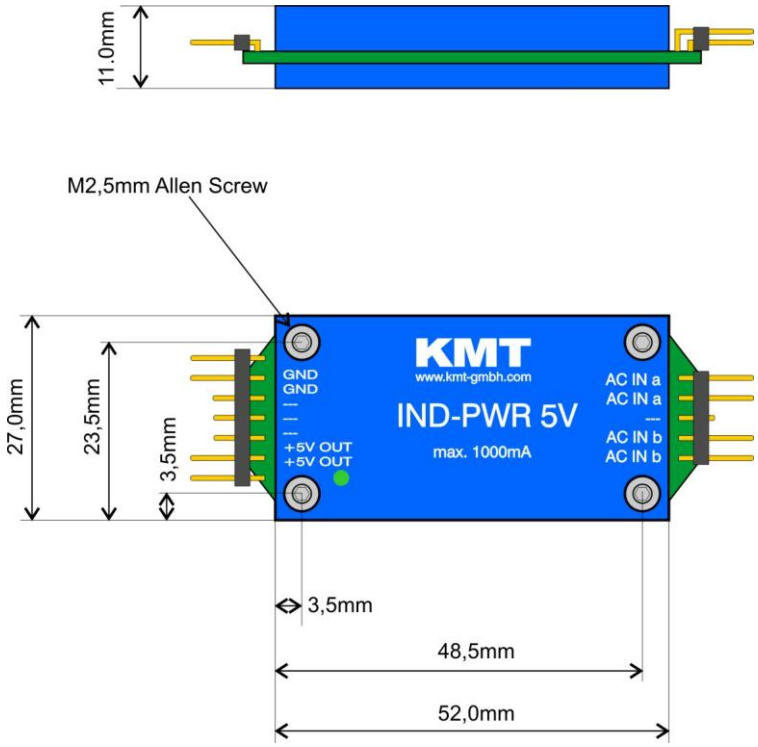

**Status LED**

**LED ON = right windings and good distance between head and coil**

**LED very low blinking = too less windings of IND-Coil or too large distance between head and coil!**

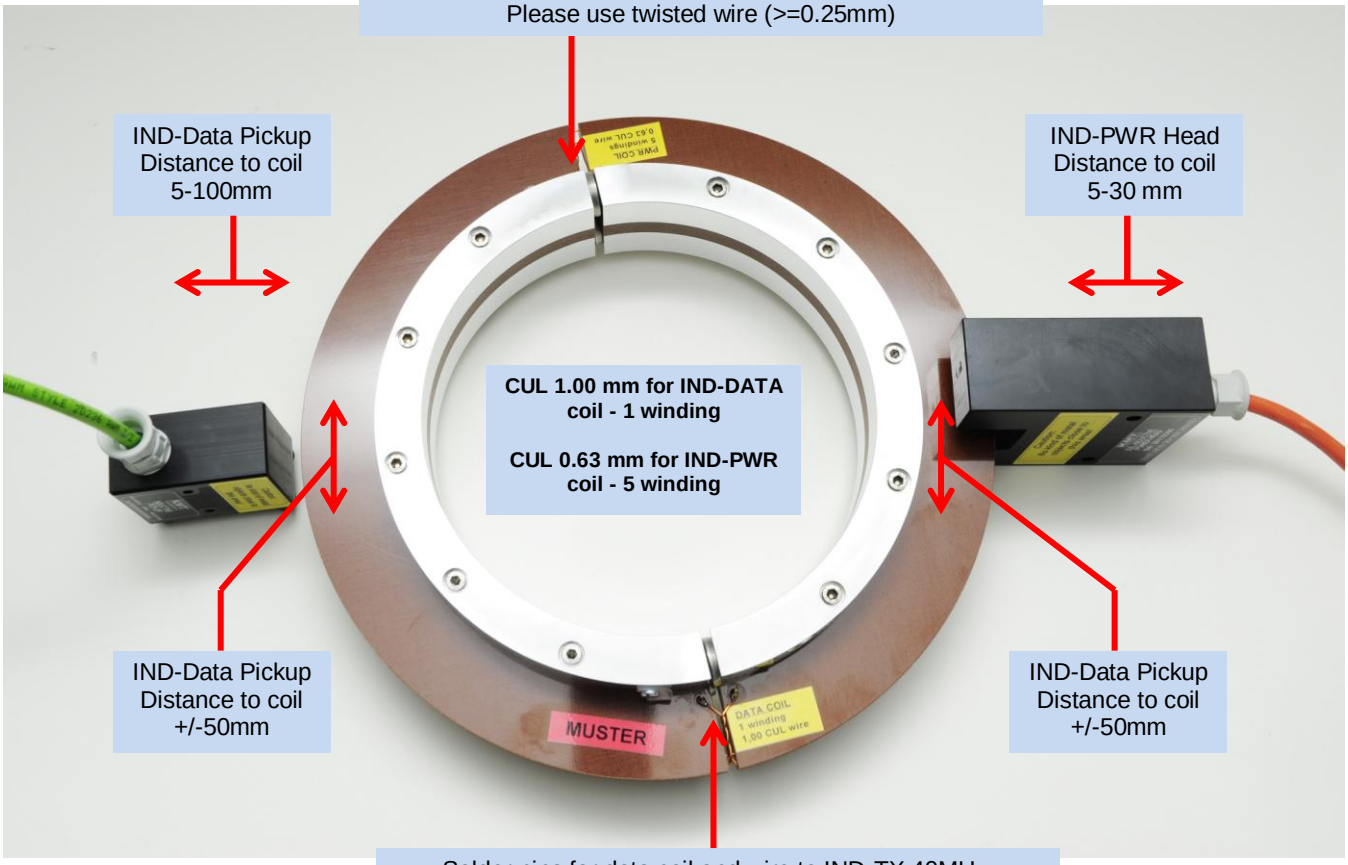
**LED fast blinking = too much windings (OVER POWER at IND-Coil) reduce windings or module go hot and switch OFF**

## MT32 IND-PWR housing - dimensions

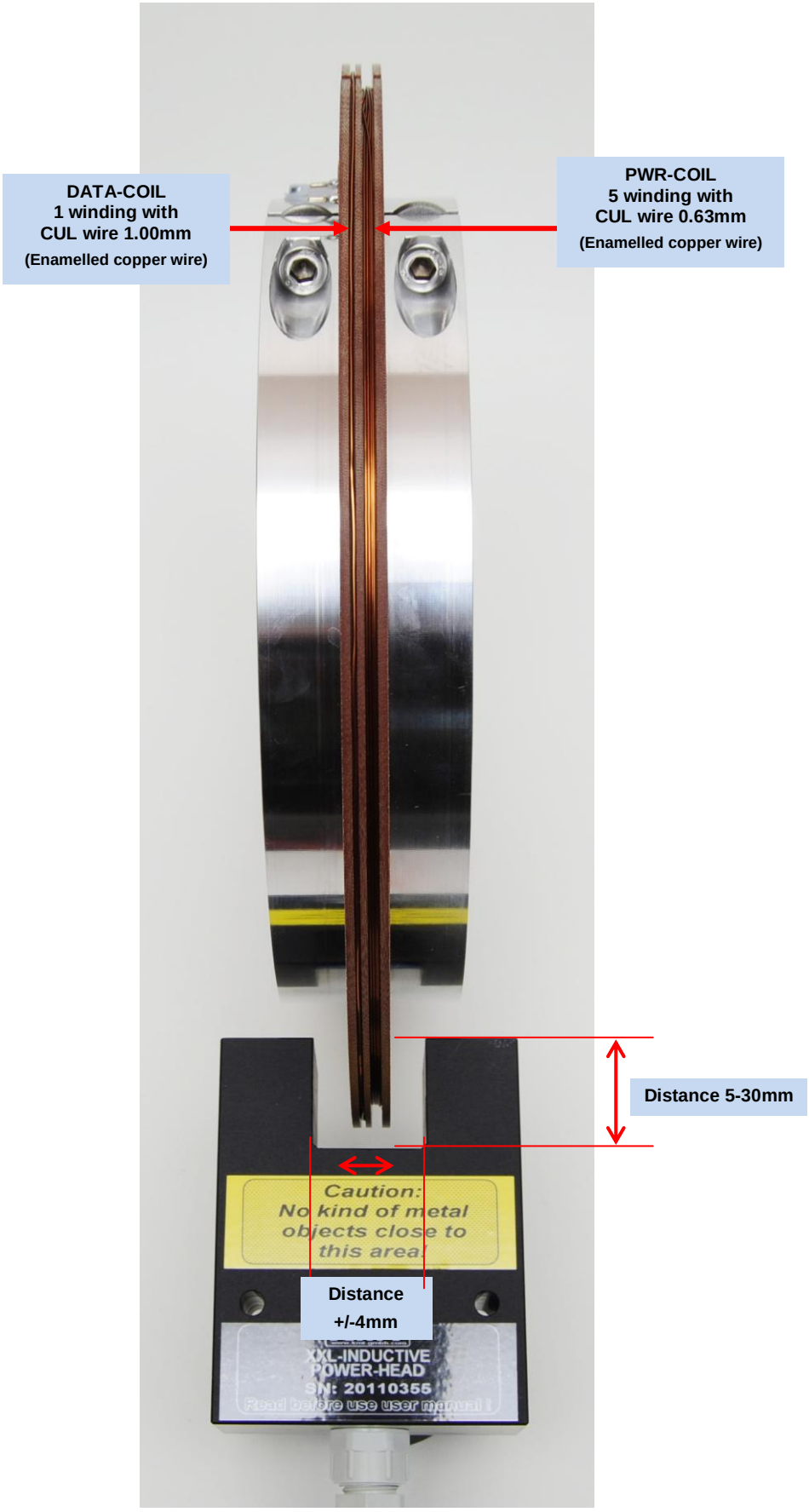



Weight about 35 grams

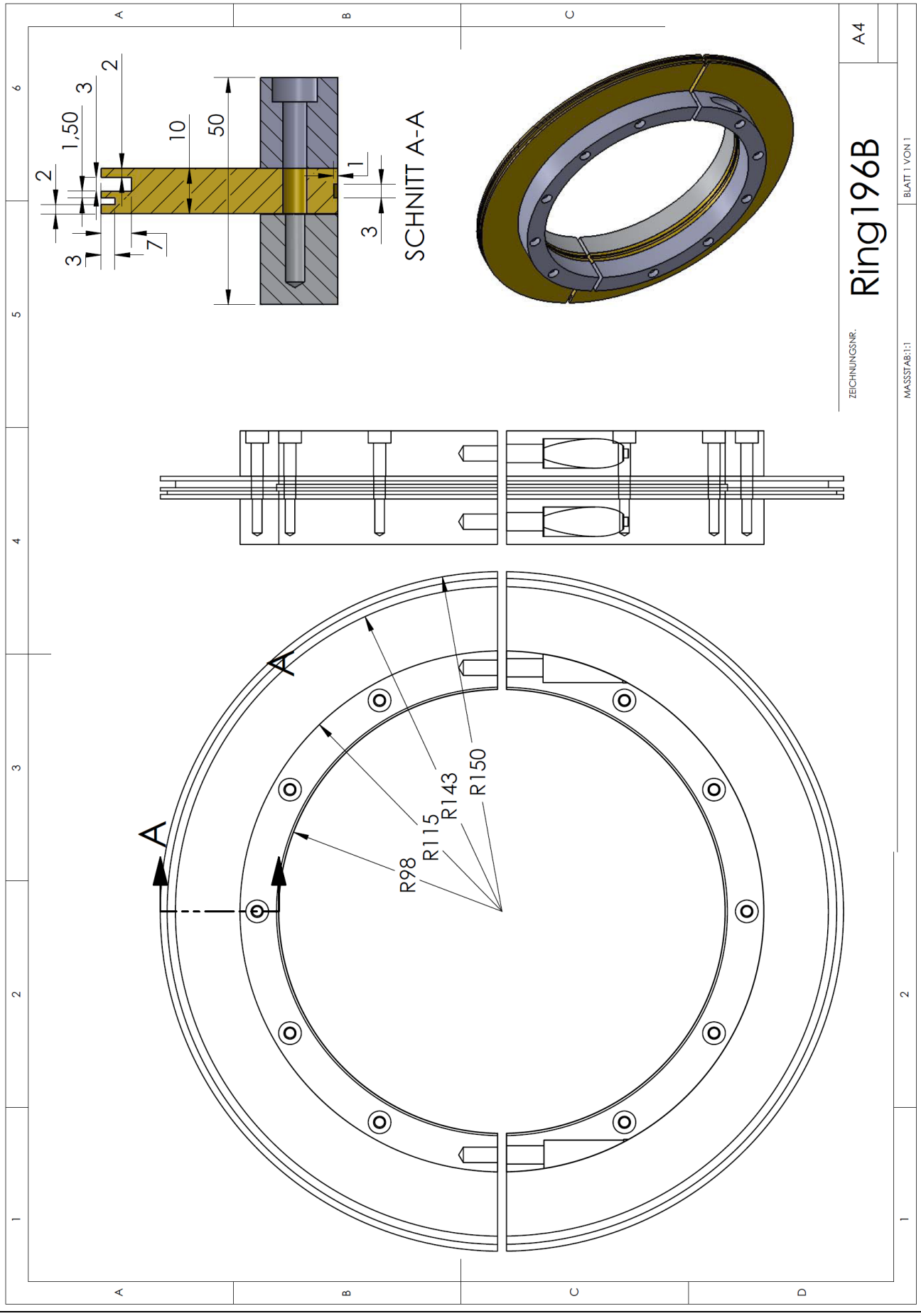
# Inductive power supply
# RING COIL - Distance power head and pickup head



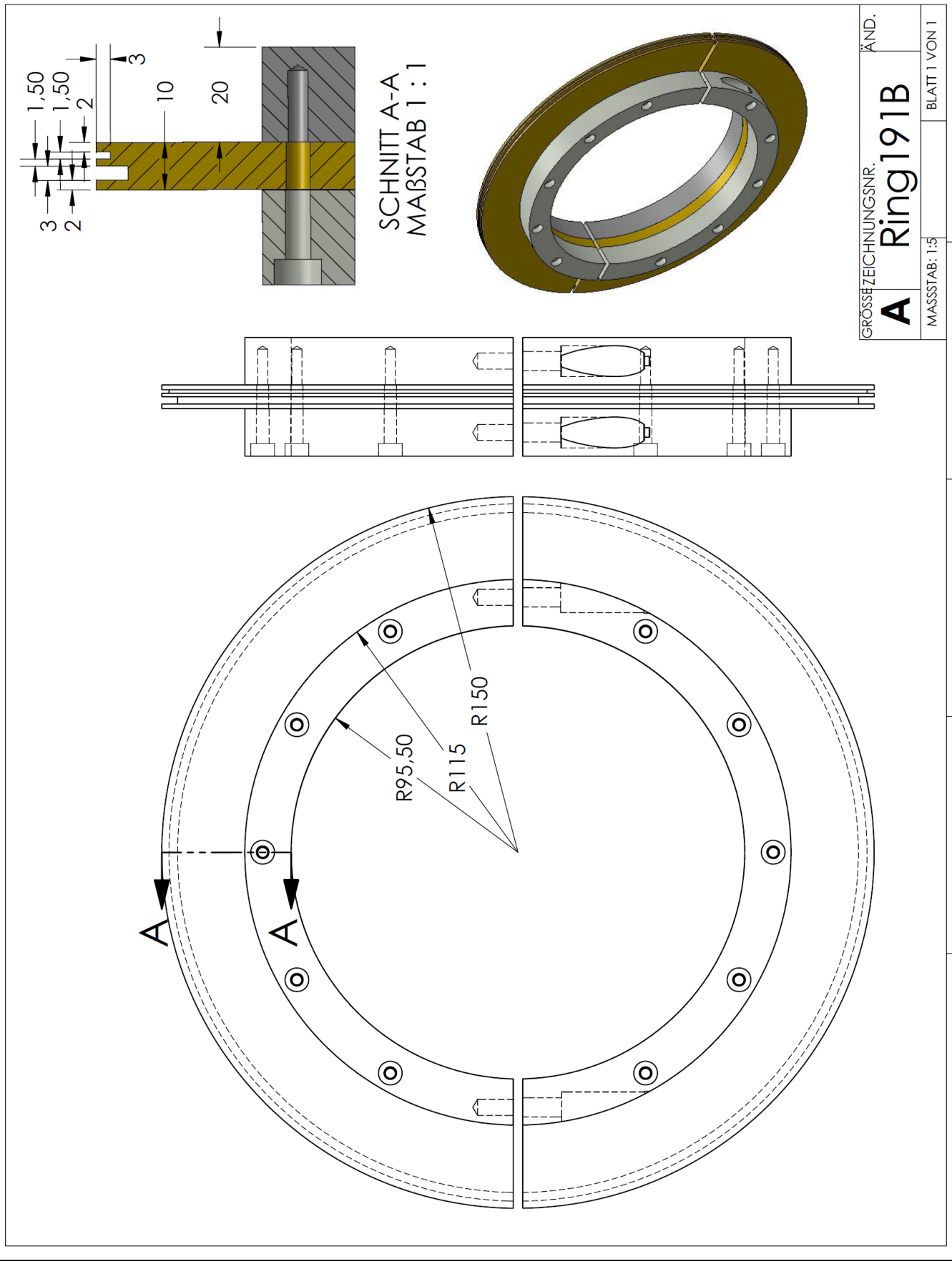
# Inductive power supply
# RING COIL – Distance power head



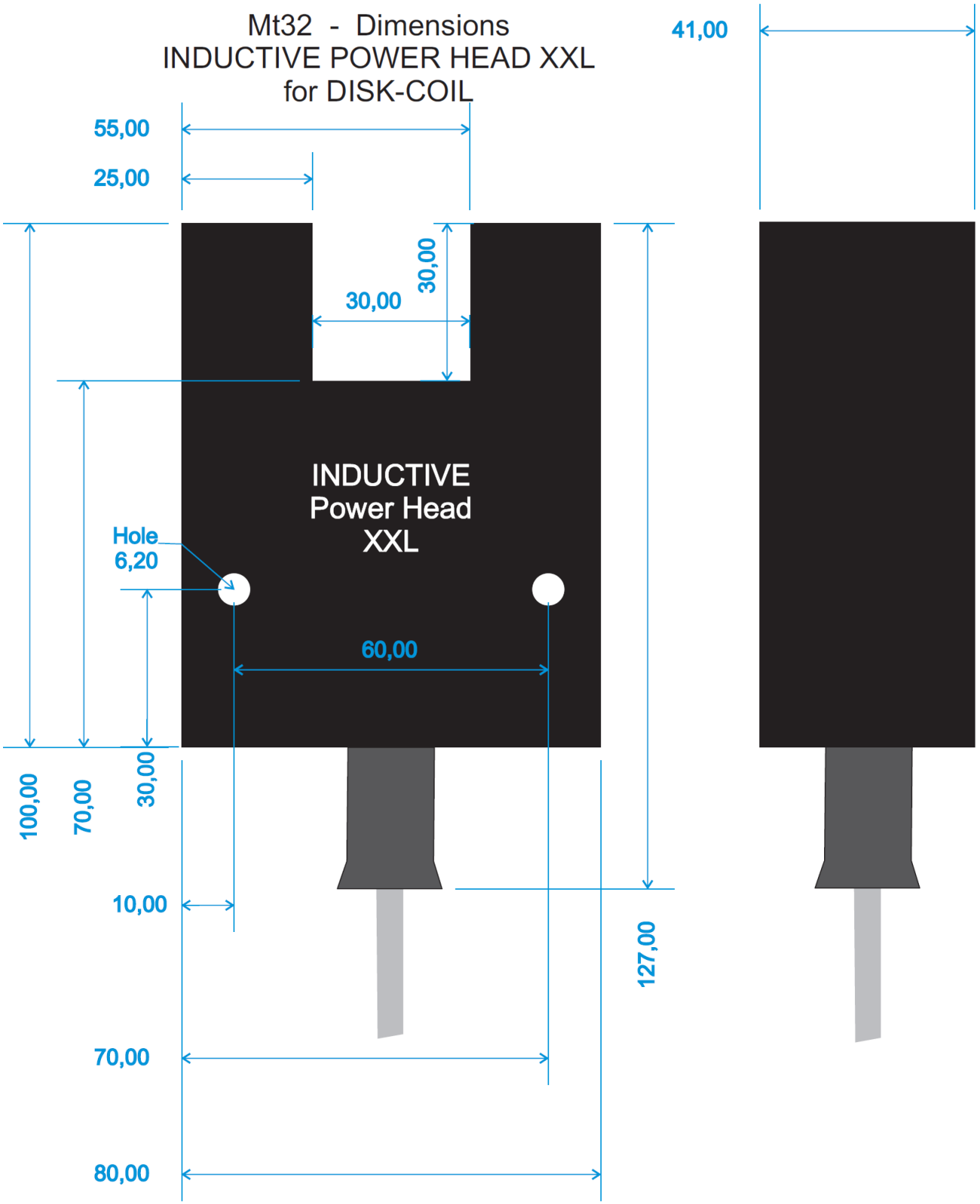
# Inductive power supply
# RING COIL inner diameter 196mm



# Inductive power supply
# RING COIL inner diameter 191mm

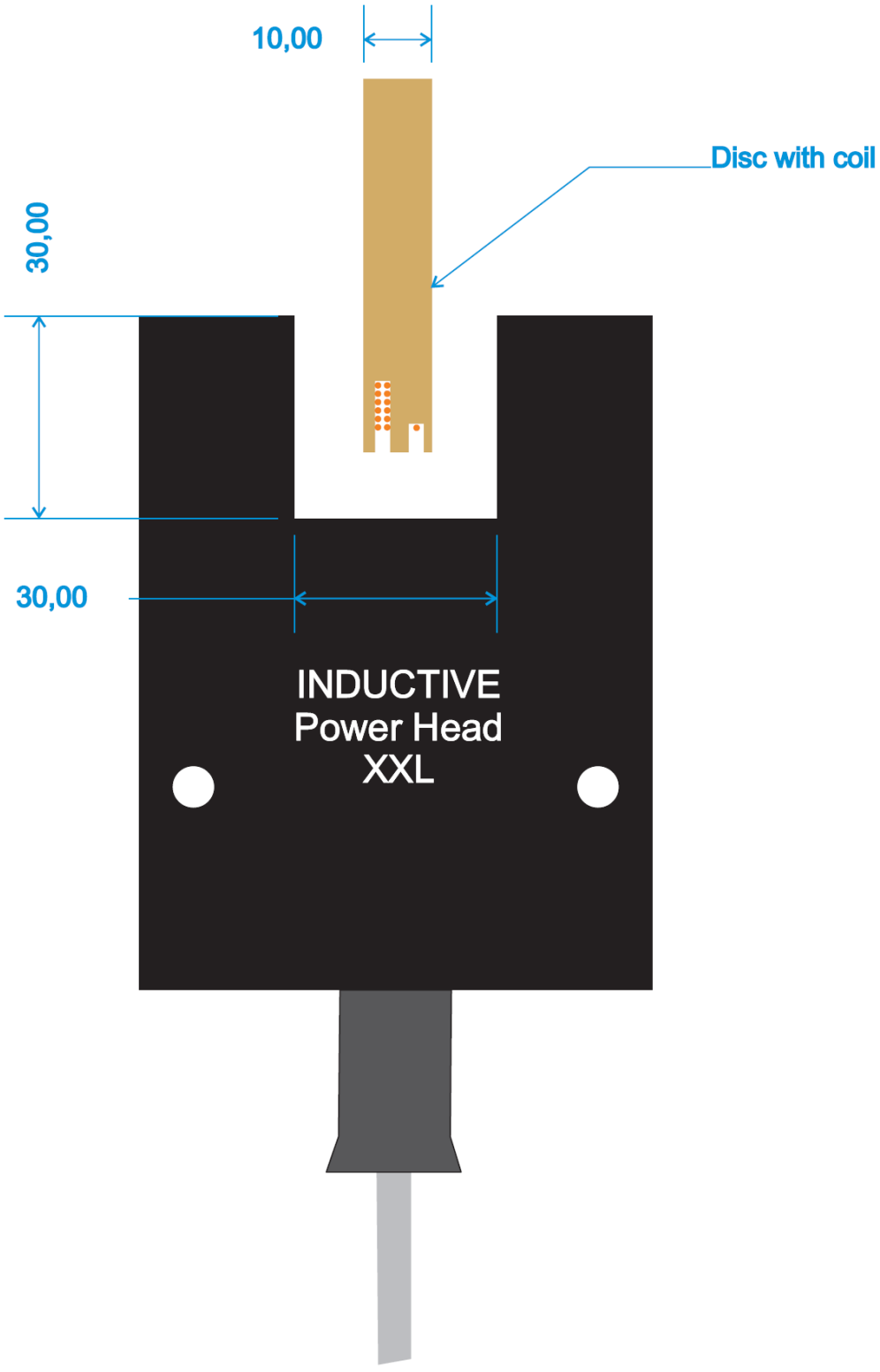


## Dimensions of IND-PWR-HEAD-XXL



## Dimensions of IND-PWR-HEAD-XXL

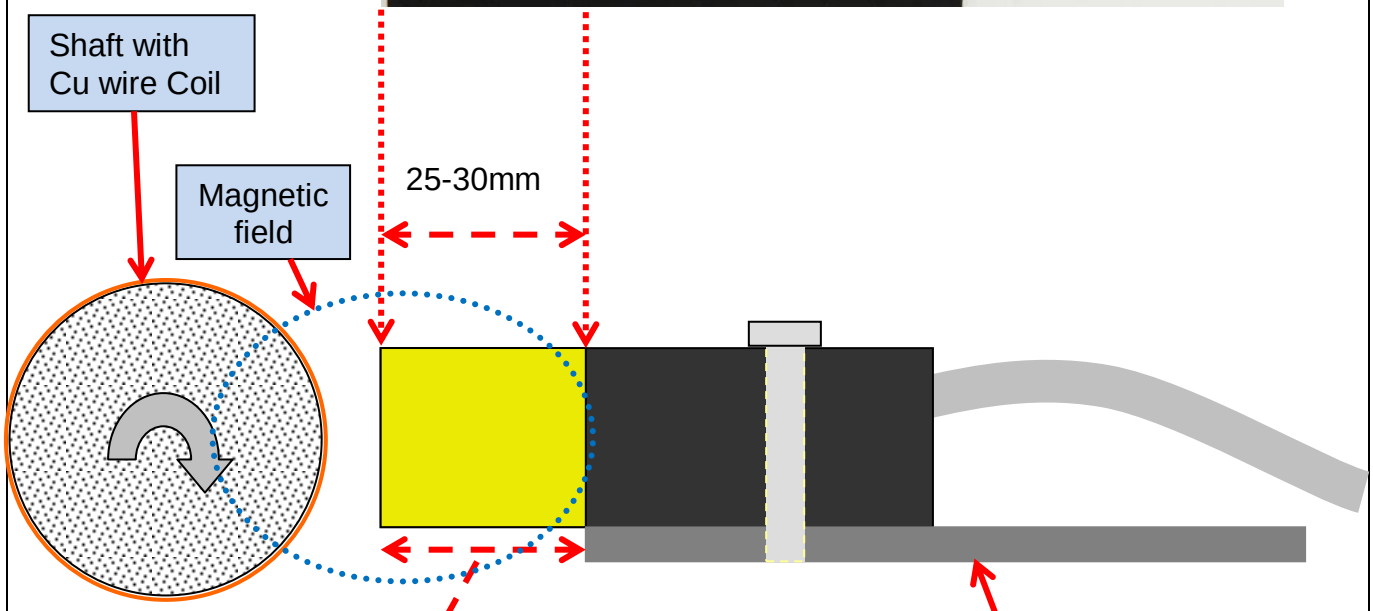
MT32 - Dimensions
INDUCTIVE POWER HEAD XXL
Coil distances



## IND-PWR-HEAD-XXL

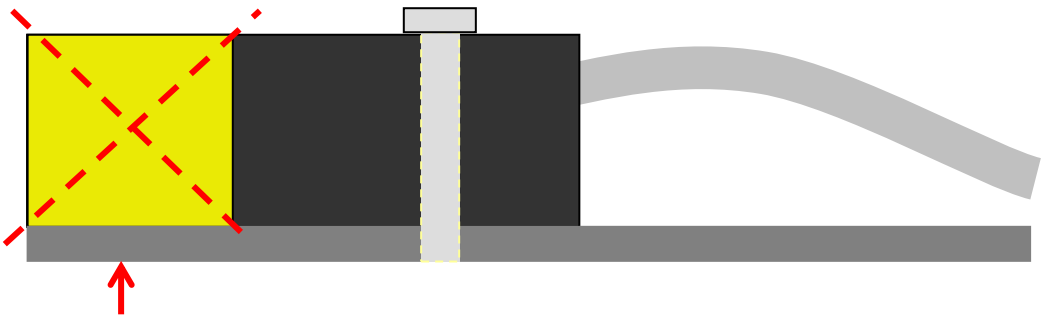
**Caution for use of power heads!**
**Cable must unrolled for use, otherwise it will warm up!**

**MT32-IND-PWR**
**Following must be considered at the mounting of the inductive power head**



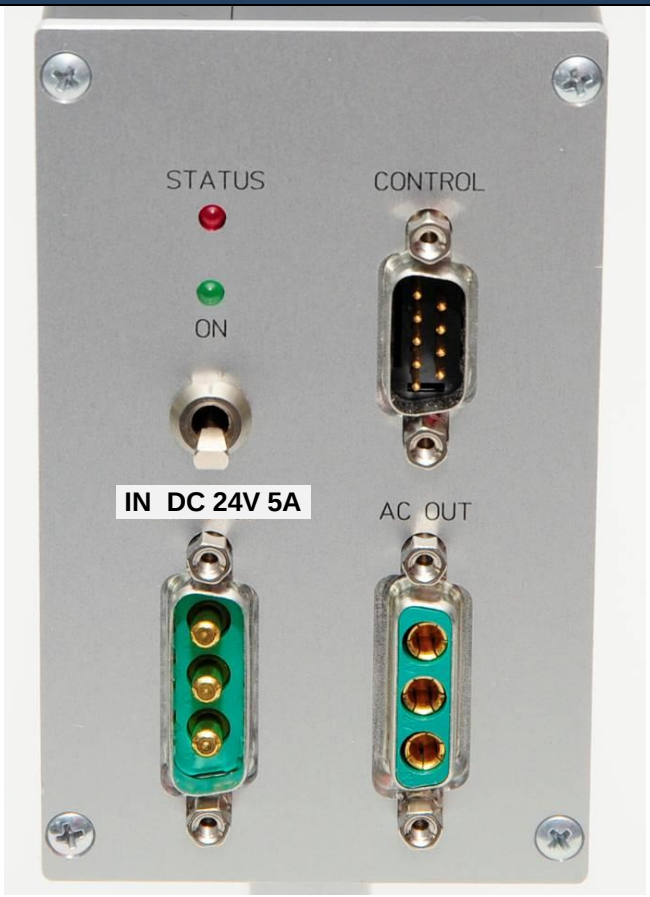

**Don't use for mounting any kind metal in this area (25-30mm)! Otherwise magnetic energy will flow in the metal and decrease the distance between power head and coil (on shaft)!**

Example of mounting

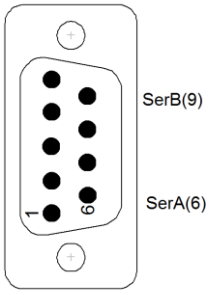


Wrong!!! Mounting (only if metal) plate cover the active area of

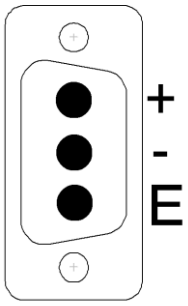
## MT32-IND-PWR-XXL
## Pin connection



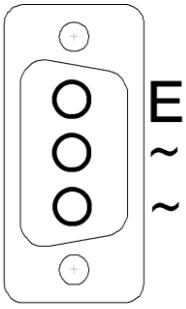

RS 485




CONTROL - Not used!



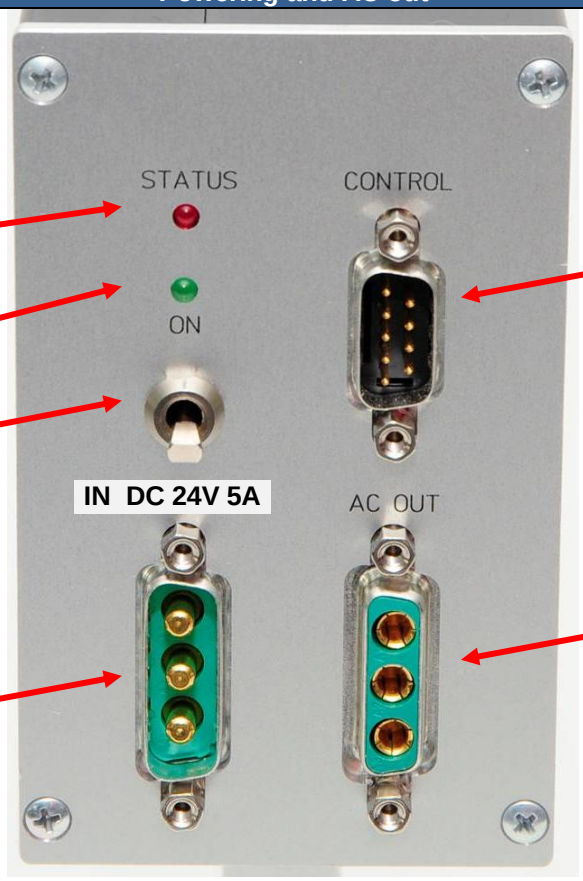

DC 24V
(100 WATT)




AC 25-35kHz output
for power head

**E**= have no function

## Powering and AC out




**LED flashing = auto adjustment**
**LED ON = finish**
**IND-resonance of**
**Power head reached!**

**Power control LED**

**Power Switch**

**Power INPUT**
**DC 24V**
**(100WATT)**

**Control out of function**

**AC 25-35kHz output**
**for power head**

## Safety notes for inductive powering

- The device should only applied by instructed personnel.
- The power head emits strong magnetic radiation at 30-60 kHz to a distance of 20 cm. Therefore persons with cardiac pacemakers should not work with this device!
- Magnetic data storage media should be kept in a distance of at least 3m from the power head to avoid data loss. The same is valid for electromagnetic sensitive parts, devices and systems.
- Do not place the power head in the switched-on state on metallic objects, because this results in eddy currents which could overload the device and strong heat up small objects. Also the probe could be destroyed!
- No metallic objects, other than the disc-type coil, should be located in the air gap of the power head. The same applies to metallic parts within a radius of up to 30 mm in all directions.
- Do not use damaged or faulty cables!
- Never touch in the area between shaft and inductive head, the rotating shaft itself or rotor electronic contacts during operation!
- This is a “Class A” system suitable for operation in a laboratory or industrial environment. The system can cause electromagnetic interferences when used in residential areas or environments. In this case the operator is responsible for establishing protective procedures.